set requesting a data communication service, for storing data generated by terminal equipment at said subscriber's mobile wireless station set;

means for segmenting said data in at least one core unit, each core unit exclusively comprising a payload of predetermined size;

means, responsive to the existence of a presently active radio link in use by said subscriber's mobile wireless station set, for selecting said dedicated control channel of said presently active radio link to transmit said data to said digital cellular mobile telecommunication network; and

means for packaging said at least one core unit into a radio link protocol to transmit said data to said digital cellular mobile telecommunication network via said dedicated control channel of said presently active radio link.

7.   A method for providing a subscriber's mobile wireless station set with high speed data transmission capability by using the dedicated control channel of a radio link that interconnects said subscriber's mobile wireless station set with a digital cellular mobile telecommunication network, comprising the steps of:

storing in a memory, in response to a subscriber at said subscriber's mobile wireless station set requesting a data communication service, data generated by terminal equipment at said subscriber's mobile wireless station set;

segmenting said data in at least one core unit, each core unit exclusively comprising a payload of predetermined size;

selecting, in response to the existence of a presently active radio link in use by said subscriber's mobile wireless station set, said dedicated control channel of said presently active radio link to transmit said data to said digital cellular mobile telecommunication network; and

packaging said at least one core unit into a radio link protocol to transmit said data to said digital cellular mobile telecommunication network via said dedicated control channel of said presently active radio link.

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